LineUp With Math™ Alignment
New York SED Math Standards

Problem Solving Strand

Students will solve problems that arise in mathematics and in other contexts.

Standard	***LineUp With Math™* Activities**
A.PS.4 Use multiple representations to represent and explain problem situations (e.g., verbally, numerically, algebraically, graphically)	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

Students will apply and adapt a variety of appropriate strategies to solve problems.

Standard	***LineUp With Math™* Activities**
A.PS.5 Choose an effective approach to solve a problem from a variety of strategies (numeric, graphic, algebraic)	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios. --Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts. --Choose and apply a variety of strategies to optimize the solution of air traffic control conflicts.

Connections Strand

Students will recognize and apply mathematics in contexts outside of mathematics.

Standard	***LineUp With Math™* Activities**
A.CN.6 Recognize and apply mathematics to situations in the outside world	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.
A.CN.7 Recognize and apply mathematics to problem situations that develop outside of mathematics	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

Representation Strand

Students will create and use representations to organize, record, and communicate mathematical ideas..

Standard	***LineUp With Math™* Activities**
A.R.1 Use physical objects, drawings, charts, tables, graphs, symbols, equations, or objects created using technology as representations.	--Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

Students will use representations to model and interpret physical, social, and mathematical phenomena.	
Standard	***LineUp With Math™* Activities**
A.R.6 Use mathematics to show and understand physical phenomena (e.g., find the height of a building if a ladder of a given length forms a given angle of elevation with the ground)	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios. --Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.

Measurement Strand	
Students will determine what can be measured and how, using appropriate methods and formulas.	
Standard	***LineUp With Math™* Activities**
A.M.1 Calculate rates using appropriate units (e.g., rate of a space ship versus the rate of a snail)	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios. --Use an interactive simulator plus calculation worksheets to model and resolve air traffic control conflicts.
A.M.2 Solve problems involving conversions within measurement systems, given the relationship between the units.	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.